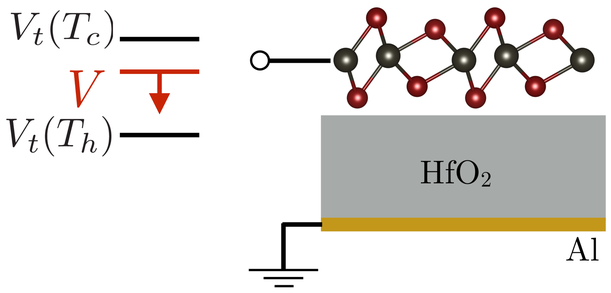
a

1

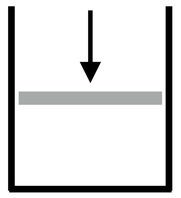


$1\mathrm{T}' \rightarrow$ mixed

$\Delta S = 0$

b

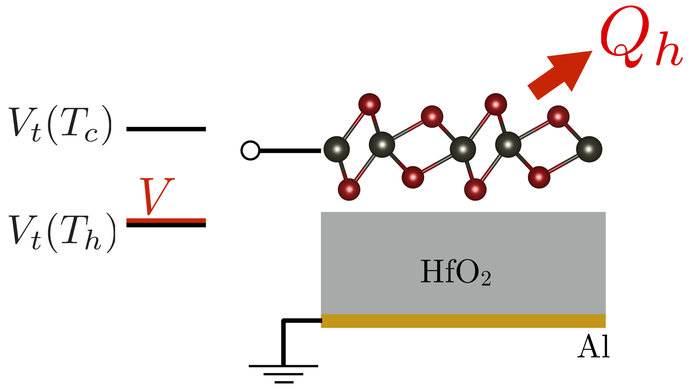
$T_c \leq T \leq T_h$



mixed $\rightarrow$ vapor

$\Delta S = 0$

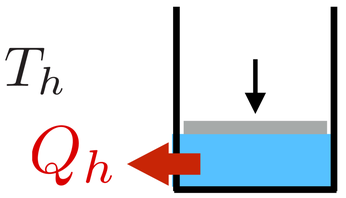
2



mixed $\rightarrow$ 2H

$\Delta S < 0$

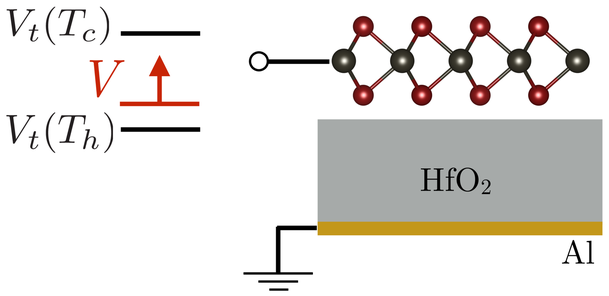
$T = T_h$



vapor $\rightarrow$ liquid

$\Delta S < 0$

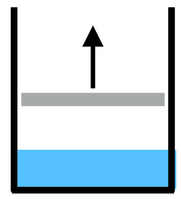
3



$2\mathrm{H} \rightarrow$ mixed

$\Delta S = 0$

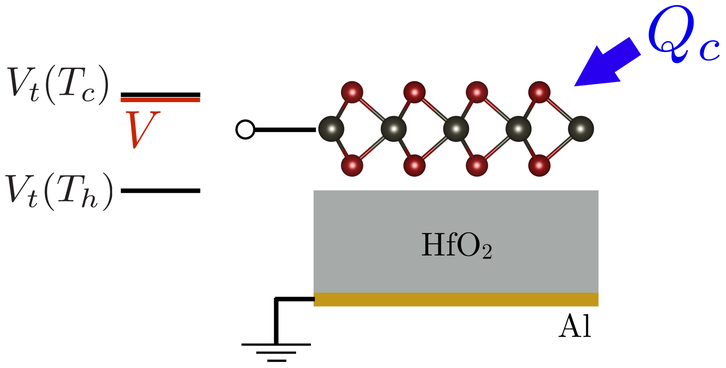
$T_c \leq T \leq T_h$



liquid $\rightarrow$ mixed

$\Delta S = 0$

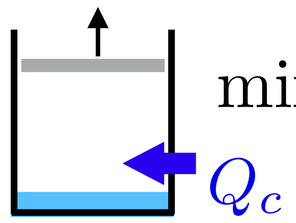
4



mixed $\rightarrow 1\mathrm{T}'$

$\Delta S > 0$

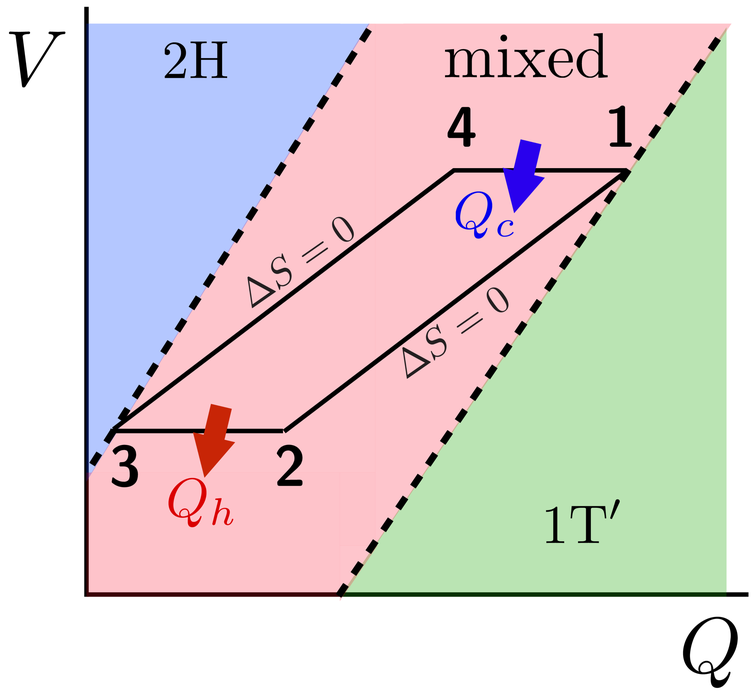
$T = T_c$



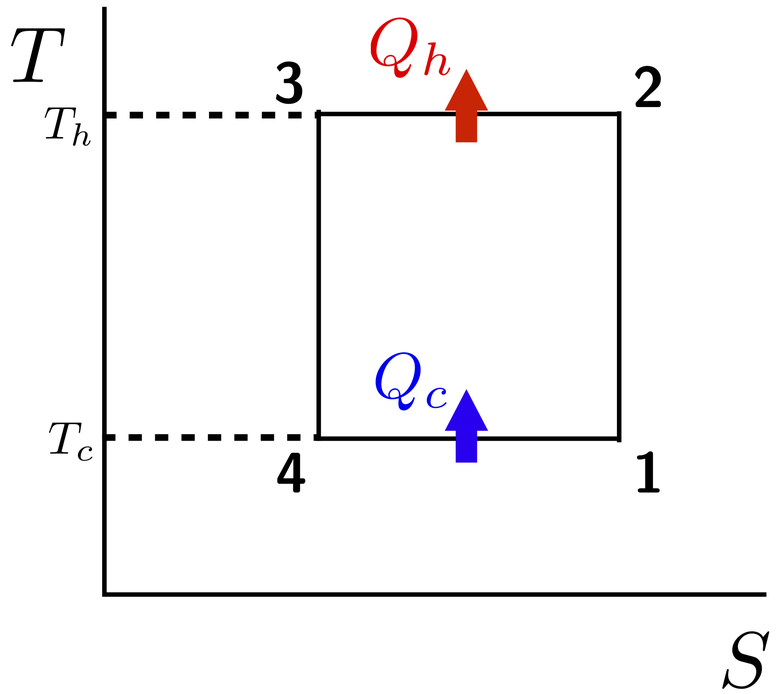
mixed $\rightarrow$ mixed

$\Delta S > 0$

c



d



e